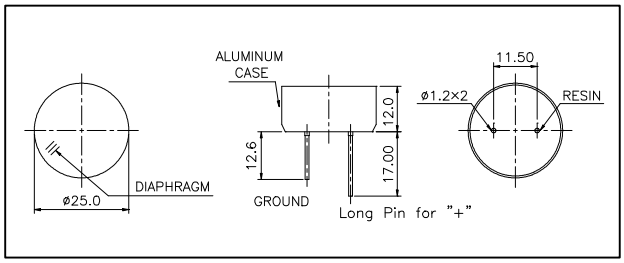
Air Ultrasonic Ceramic Transducers 250ET/R250

Dimensions: dimensions are in mm



Specification

250ET250		Transmitter
250ER250		Receiver
Center Frequency		25.0 ± 1.0Khz
Bandwidth (-6dB)	250ET250	1.0Khz
	250ER250	1.0Khz
Transmitting Sound Pressure Level at 25.0Khz; 0dB re 0.0002μbar per 10Vrms at 30cm		113dB min.
Receiving Sensitivity at 25.0Khz 0dB = 1 volt/μbar		-63dB min.
Capacitance at 1Khz	± 20%	2400 ρF
Max. Driving Voltage (cont.)		15Vrms
Total Beam Angle	-6dB	40° typical
Operation Temperature		-30 to 80°C
Storage Temperature		-40 to 85°C

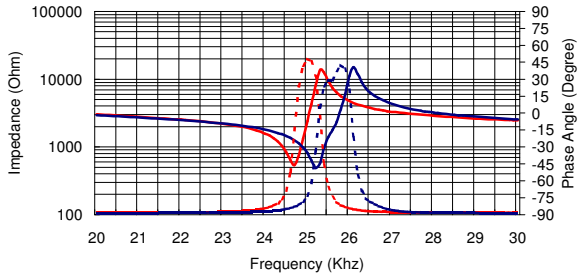
All specification taken typical at 25°C
Closer frequency tolerance can be supplied upon request.

Model available:

1	250ET/R250	Aluminum Housing
2	250ET/R25B	Black Al. Housing

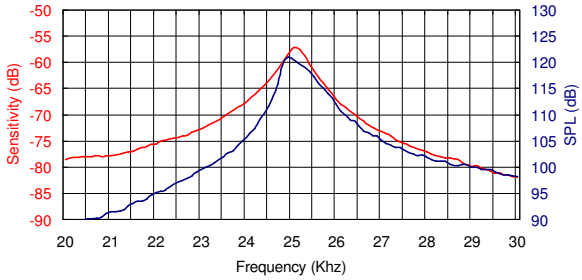
Impedance/Phase Angle vs. Frequency

Tested under 1Vrms Oscillation Level
250ER250 Impedance
250ER250 Phase
250ET250 Impedance
250ET250 Phase

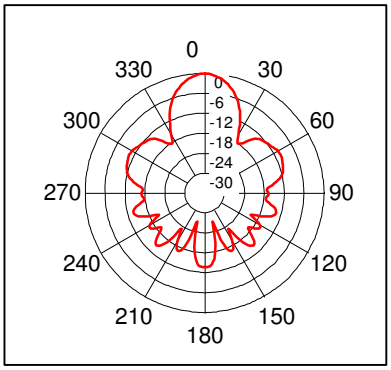


Sensitivity/Sound Pressure Level

Tested under 10Vrms @30cm



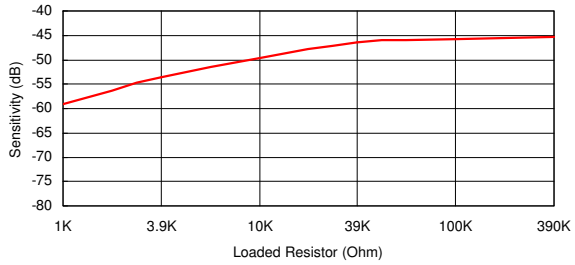
Beam Angle: Tested at 25.0Khz frequency



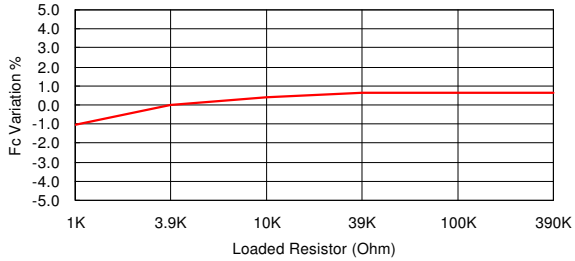
Air Ultrasonic Ceramic Transducers 250ET/R250

250ER250 Receiver

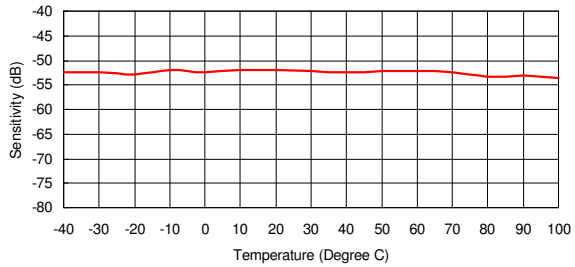
Sensitivity Variation vs. Loaded Resistor



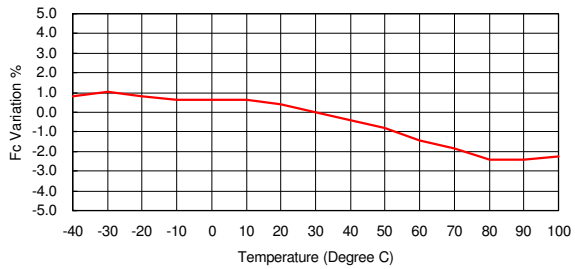
Center Frequency Shift vs. Loaded Resistor



Sensitivity Variation vs. Temperature

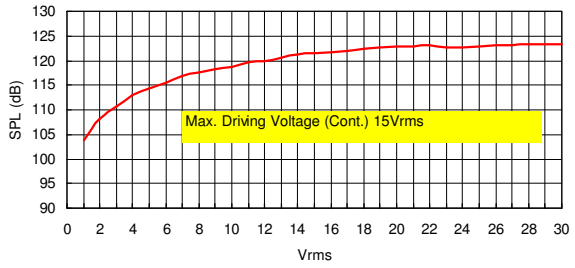


Center Frequency Shift vs. Temperature

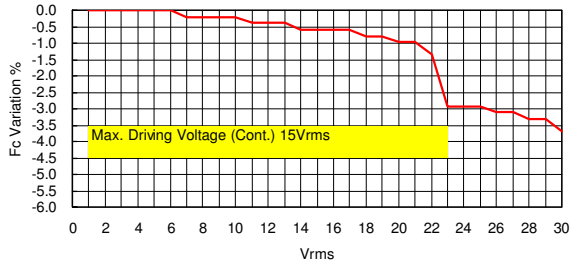


250ET250 Transmitter

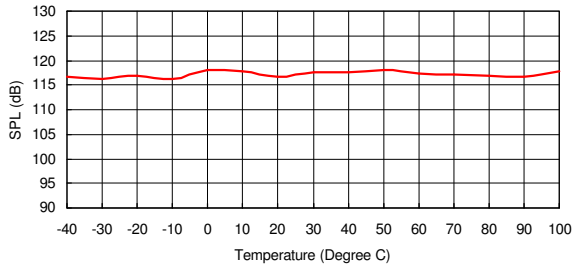
SPL Variation vs. Driving Voltage



Center Frequency Shift vs. Driving Voltage



SPL Variation vs. Temperature



Center Frequency Shift vs. Temperature